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## WHAT IS CLAIMED IS:

1	1. An isolated nucleic acid molecule encoding a variant CD11b α subunit having the
2	Ile at position 332 replaced with an amino acid selected from Gly and Ala.

- 2. A isolated nucleic acid molecule encoding a polypeptide consisting of amino acids
  144 to 331 of CD11b α subunit.
  - 3. An isolated nucleic acid molecule encoding a polypeptide comprising amino acids 144 to 332 of CD11b α subunit wherein the Ile at amino acid 332 has been replaced by an amino acid selected from Gly and Ala.
  - 4. A polypeptide comprising amino acids 144 to 332 of CD11b  $\alpha$  subunit wherein the Ile at position 332 has been replaced by an amino acid selected from Gly and Ala.
  - 5. A polypeptide comprising amino acids 144 to 331 of CD11b  $\alpha$  subunit, the polypeptide not comprising amino acids 332 to 1152 of CD11b.
  - 6. An isolated nucleic acid molecule encoding a variant CD11a  $\alpha$  subunit having the Ile at position 331 replaced with an amino acid selected from Gly and Ala.
  - 7. An isolated nucleic acid molecule encoding a polypeptide consisting of amino acids 144 to 330 of CD11a  $\alpha$  subunit.
  - 8. An isolated nucleic acid molecule encoding a polypeptide comprising amino acids 150 to 331 of CD11a  $\alpha$  subunit wherein the Ile at amino acid 331 has been replaced by an amino acid selected from Gly and Ala.
  - 9. A polypeptide comprising amino acids 150 to 331 of CD11a α subunit wherein the least position 331 has been replaced by an amino acid selected from Gly and Ala.
    - 10. A polypeptide comprising amino acids 150 to 330 of CD11a  $\alpha$  subunit, the polypeptide not comprising amino acids 331 to 1223 of CD11a.

1	11. A method for determining whether a test compound is a candidate compound for
2	binding to CD11b, comprising:
3	(a) contacting a test compound with a polypeptide comprising amino acids 144 to
4	332 of CD11b $\alpha$ subunit wherein the Ile at amino acid 332 has been replaced by an amino
5	acid selected from Gly and Ala, and
6	(b) determining whether the test compound binds to the polypeptide,
7	wherein a compound which binds to the polypeptide is a candidate compound for
8	binding to CD11b.
1	12. A method for determining whether a test compound is a candidate compound for
2	binding to CD11a, comprising:
3	(a) contacting a test compound with a polypeptide comprising amino acids 150 to
4	331 of CD11a $\alpha$ subunit wherein the Ile at amino acid 332 has been replaced by an amino
5	acid selected from Gly and Ala, and
6	(b) determining whether the test compound binds to the polypeptide,
7	wherein a compound which binds to the polypeptide is a candidate compound for
8	binding to CD11a.